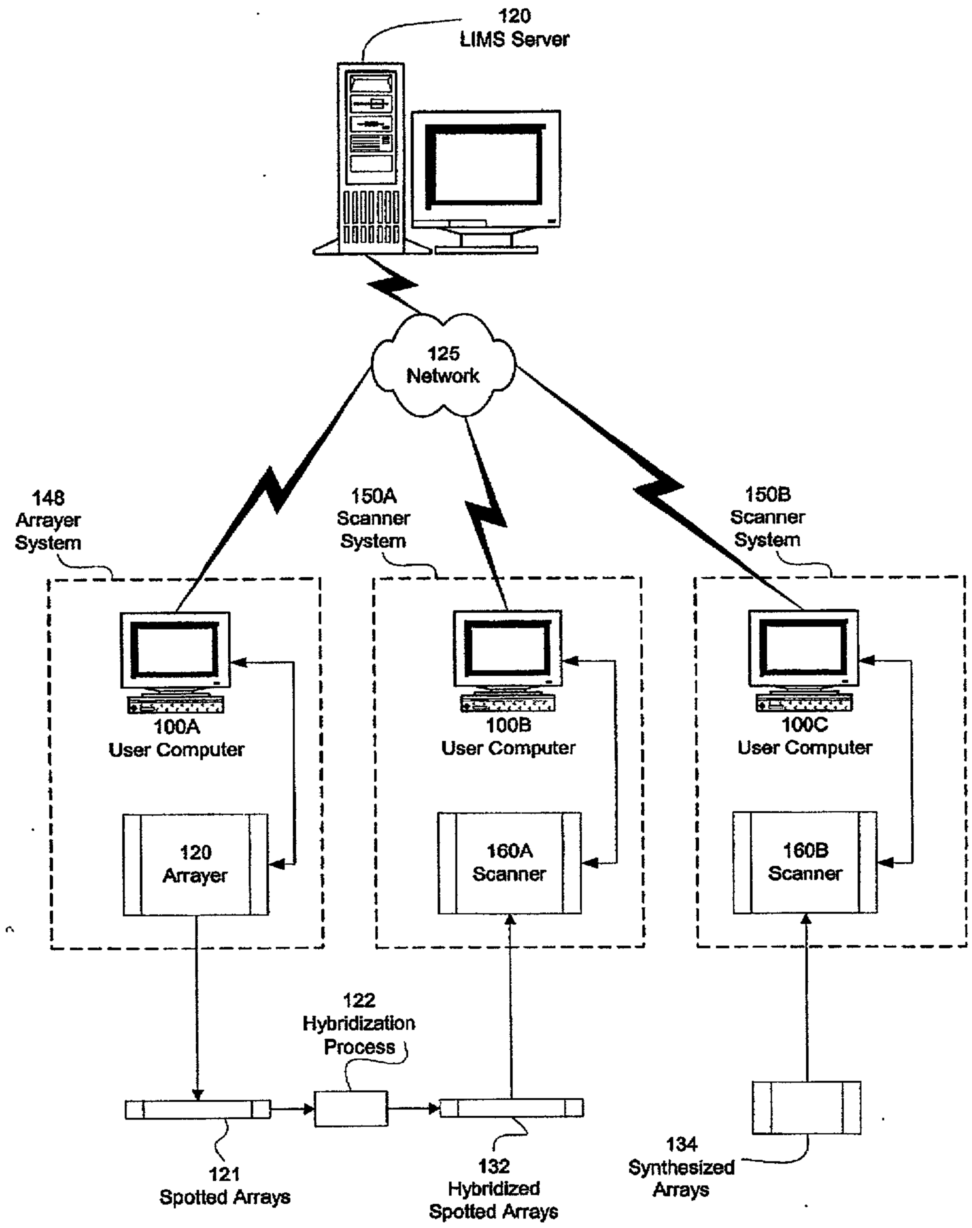
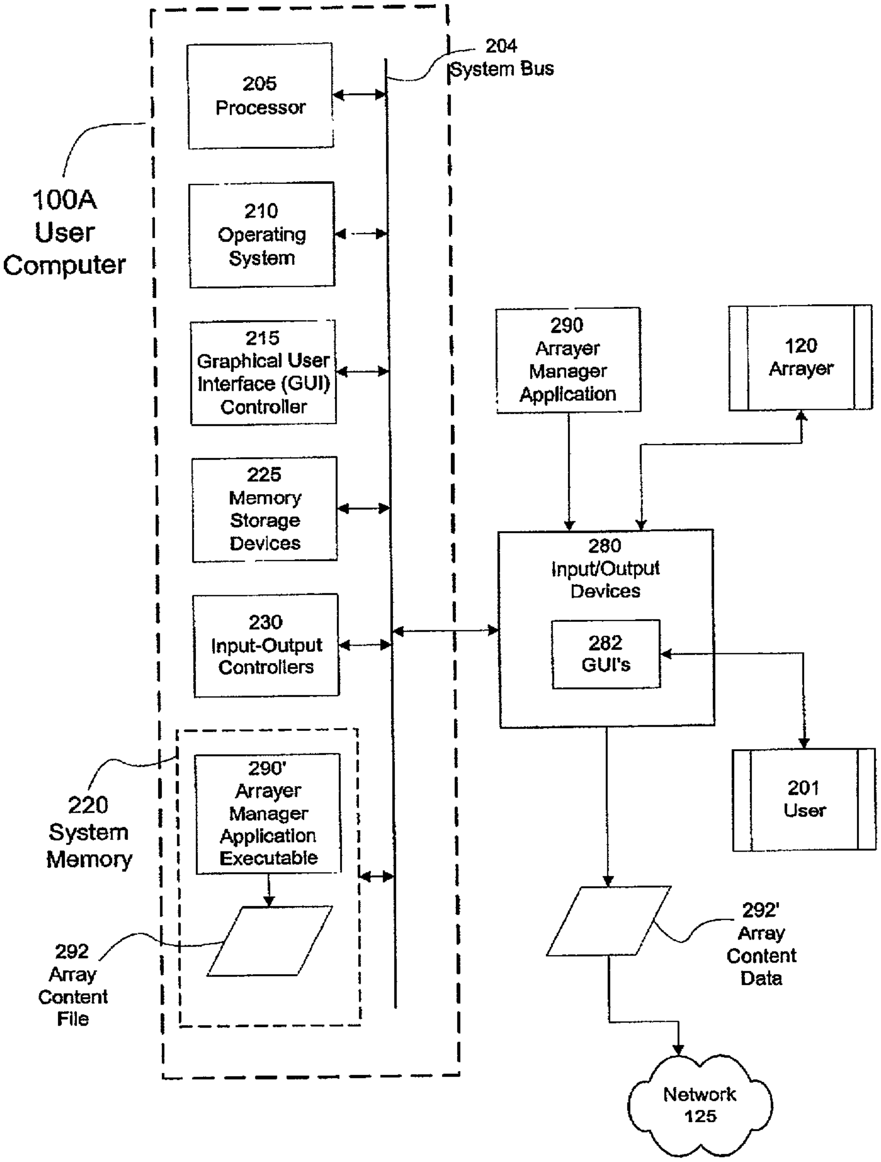
FIGURE 1



120
LIMS Server
125
Network
148
Arrayer
System
150A
Scanner
System
150B
Scanner
System
100A
User Computer
100B
User Computer
100C
User Computer
120
Arrayer
160A
Scanner
160B
Scanner
122
Hybridization
Process
121
Spotted Arrays
132
Hybridized
Spotted Arrays
134
Synthesized
Arrays

FIGURE 2



10727404 "102404

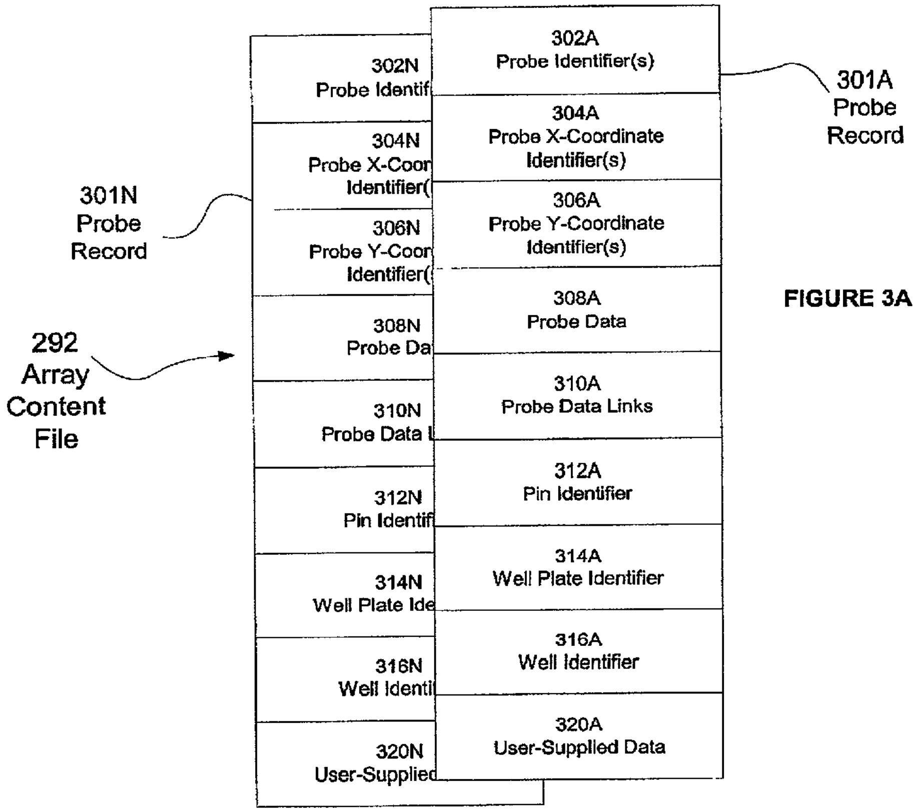


FIGURE 3A

FIGURE 3B

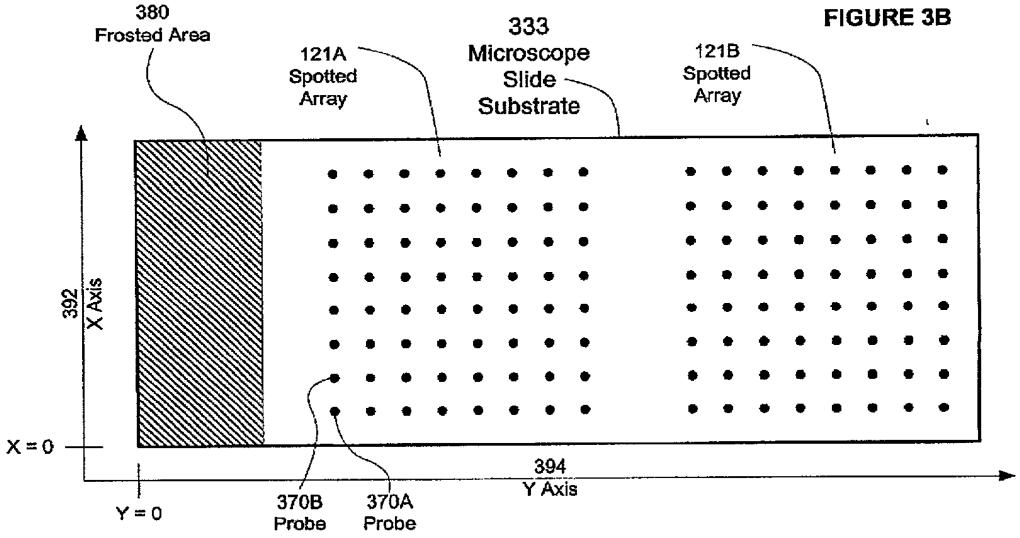


FIGURE 4

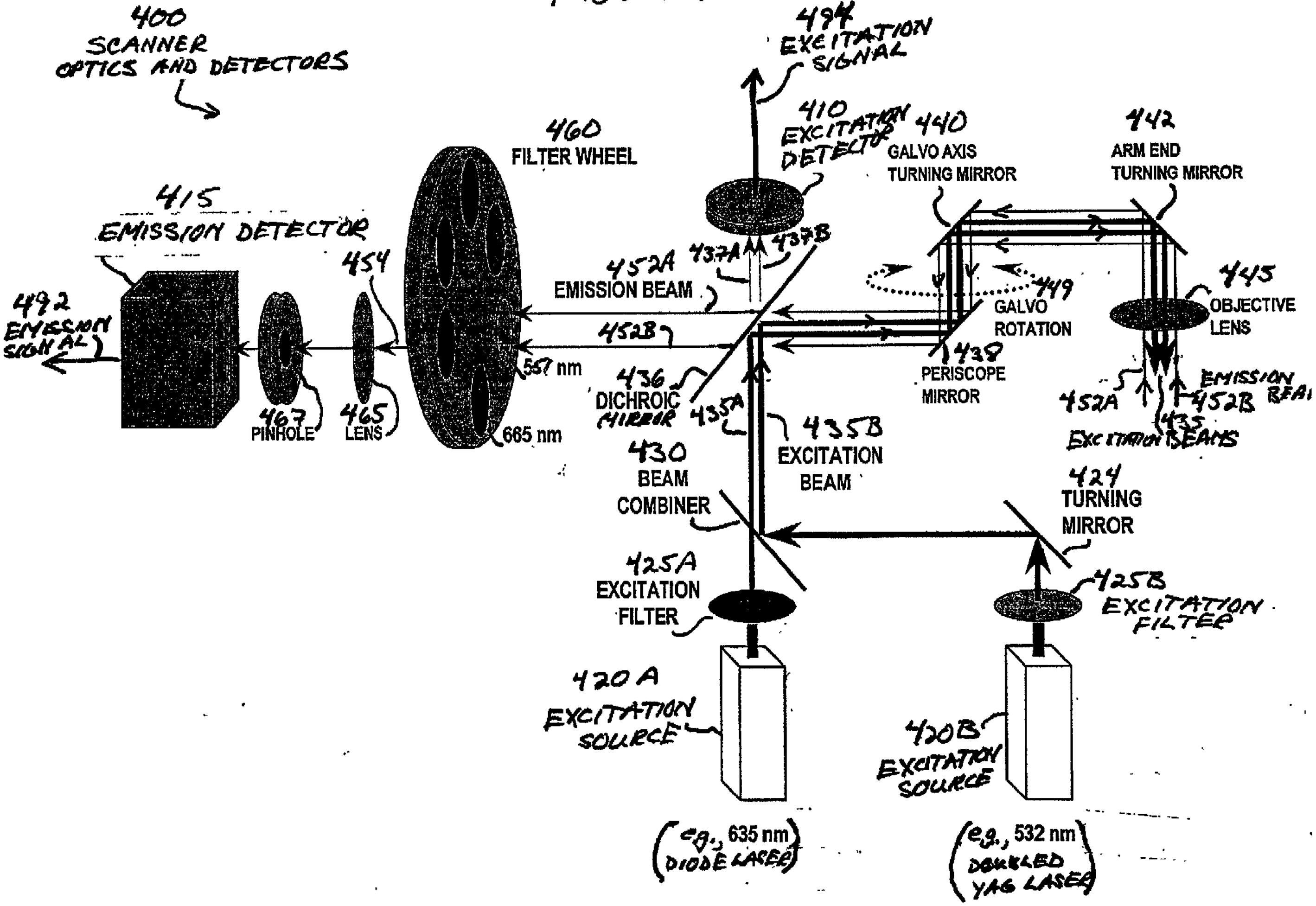

400
SCANNER
OPTICS AND DETECTORS
494
EXCITATION
SIGNAL
410
EXCITATION
DETECTOR
440
GALVO AXIS
TURNING MIRROR
442
ARM END
TURNING MIRROR
460
FILTER WHEEL
415
EMISSION DETECTOR
454
452A
EMISSION BEAM
437A
437B
449
GALVO
ROTATION
445
OBJECTIVE
LENS
492
EMISSION
SIGNAL
452B
567 nm
436
DICHROIC
MIRROR
435A
438
PERISCOPE
MIRROR
452A
452B
EMISSION BEAI
435
EXCITATION BEAMS
467
PINHOLE
465
LENS
665 nm
435B
EXCITATION
BEAM
430
BEAM
COMBINER
424
TURNING
MIRROR
425A
EXCITATION
FILTER
425B
EXCITATION
FILTER
420 A
EXCITATION
SOURCE
420B
EXCITATION
SOURCE
(e.g., 635 nm
DIODE LASER)
(e.g., 532 nm
DOUBLED
YAG LASER)

FIGURE 5A

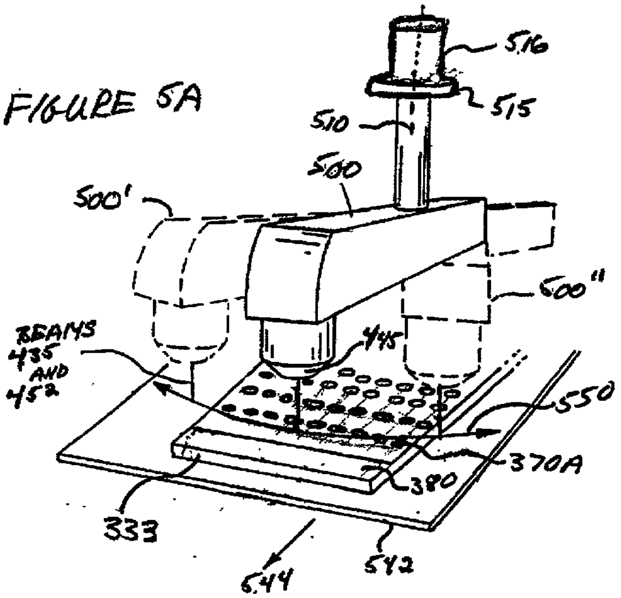


FIGURE 5B

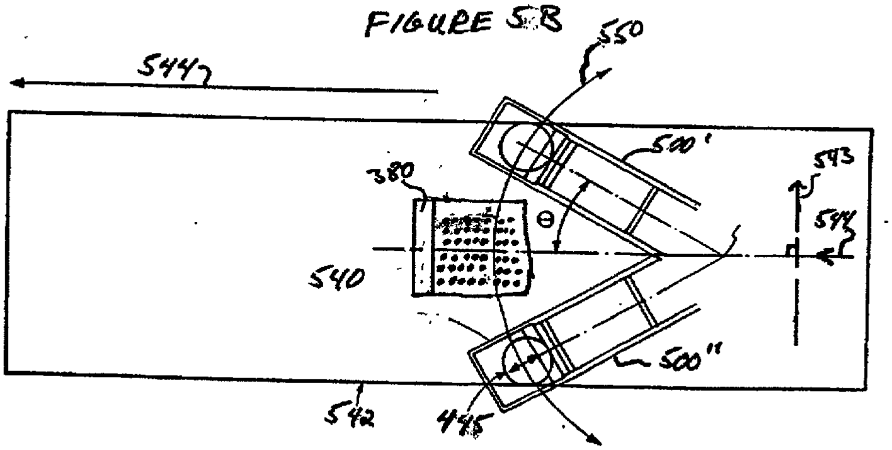


FIGURE 6A

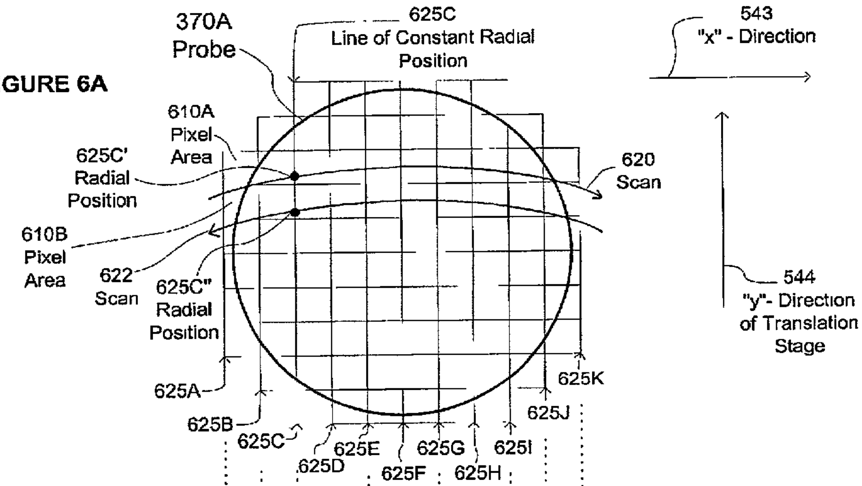


FIGURE 6B

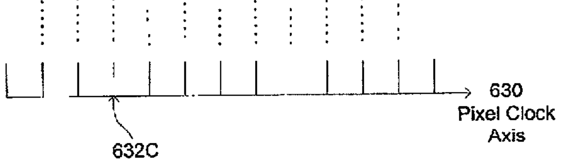
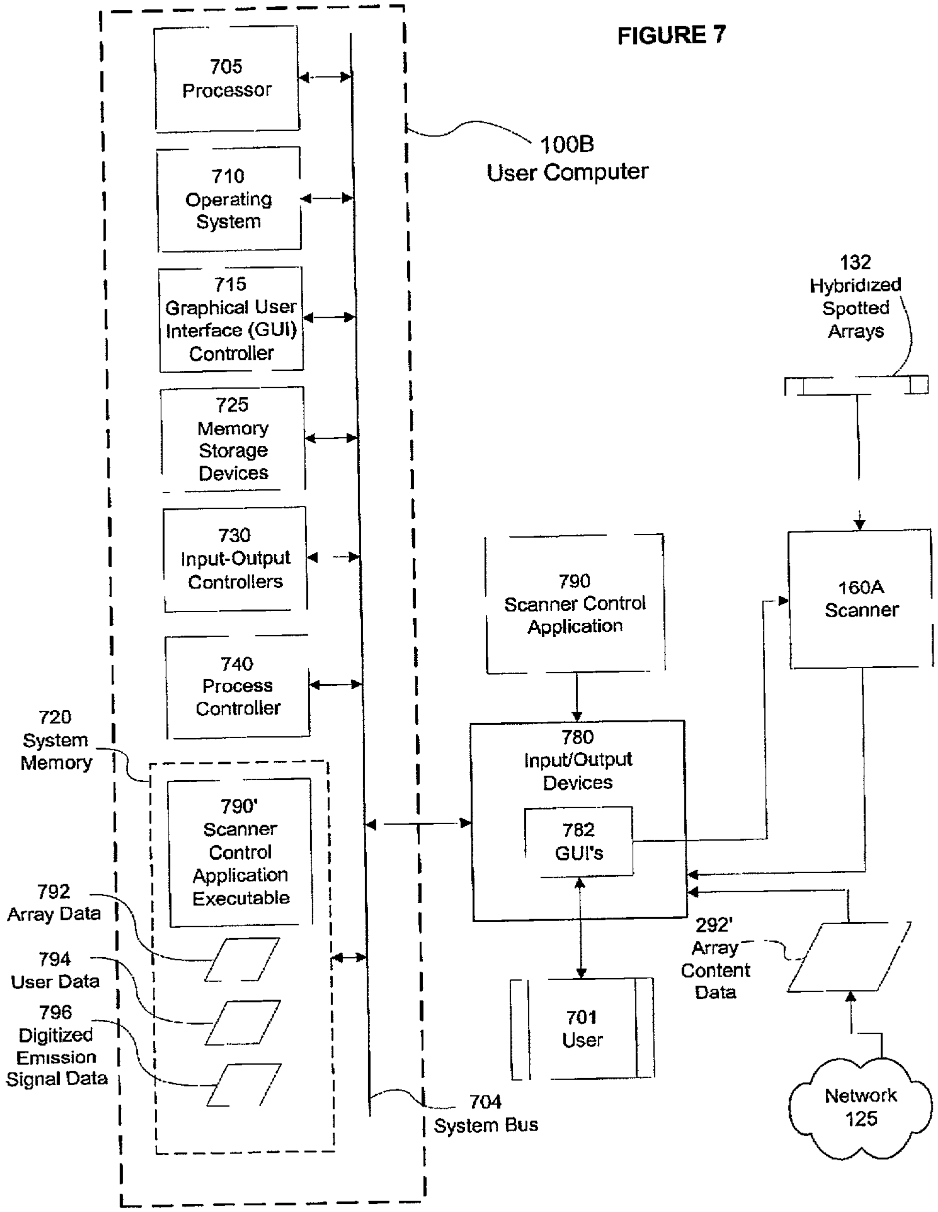


FIGURE 7



09682074.071701

FIGURE 8

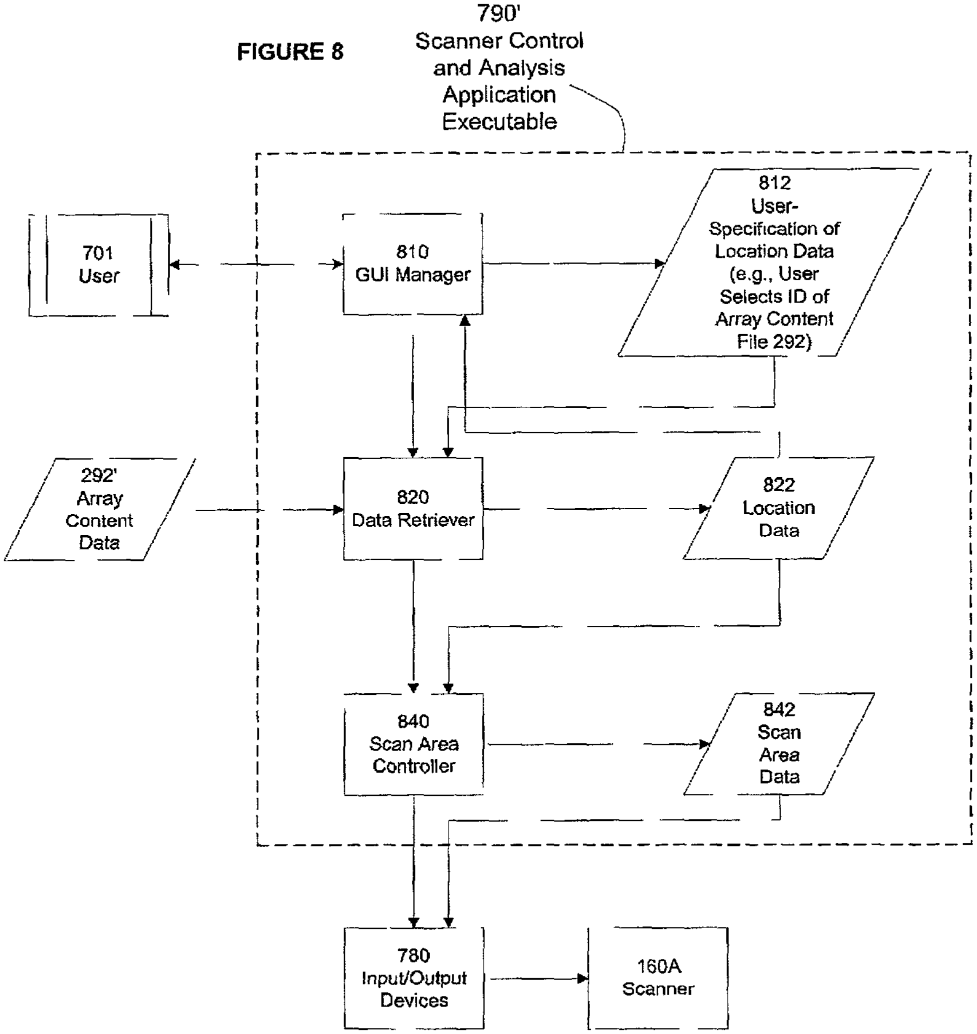
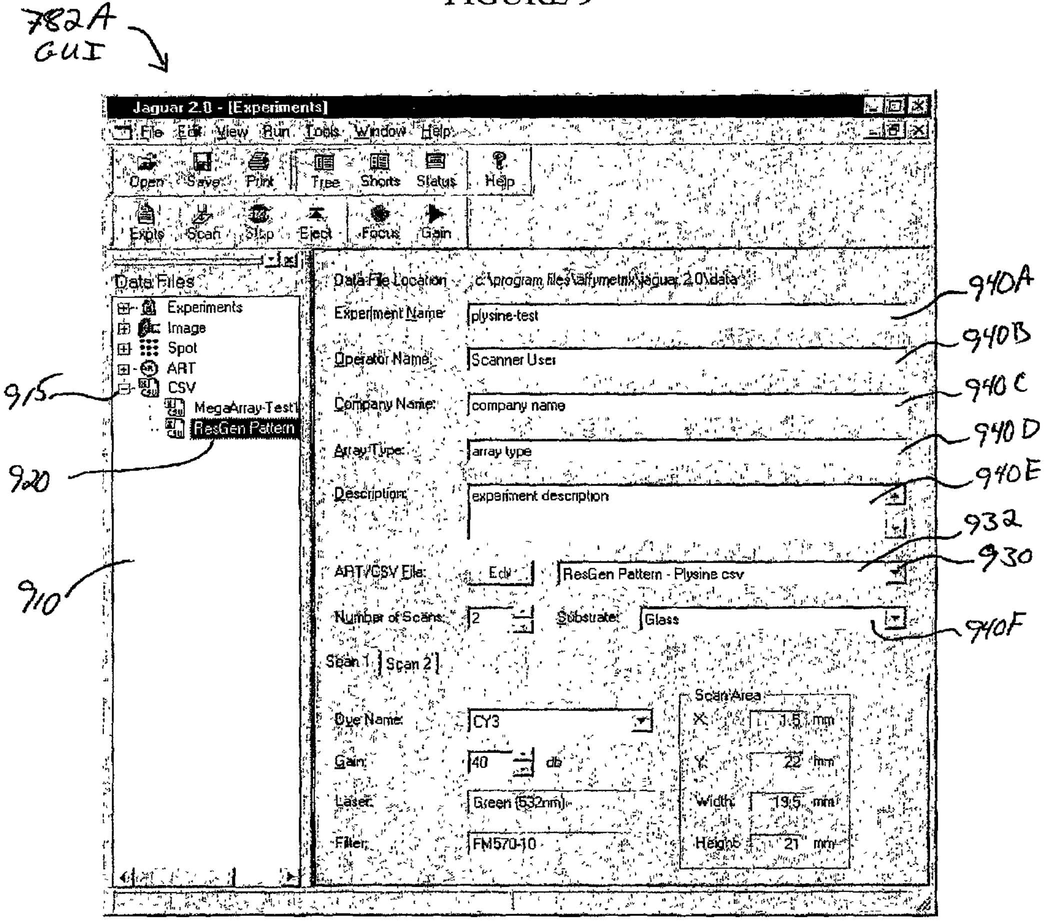

790'
Scanner Control
and Analysis
Application
Executable
701
User
810
GUI Manager
812
User-
Specification of
Location Data
(e.g., User
Selects ID of
Array Content
File 292)
292'
Array
Content
Data
820
Data Retriever
822
Location
Data
840
Scan Area
Controller
842
Scan
Area
Data
780
Input/Output
Devices
160A
Scanner

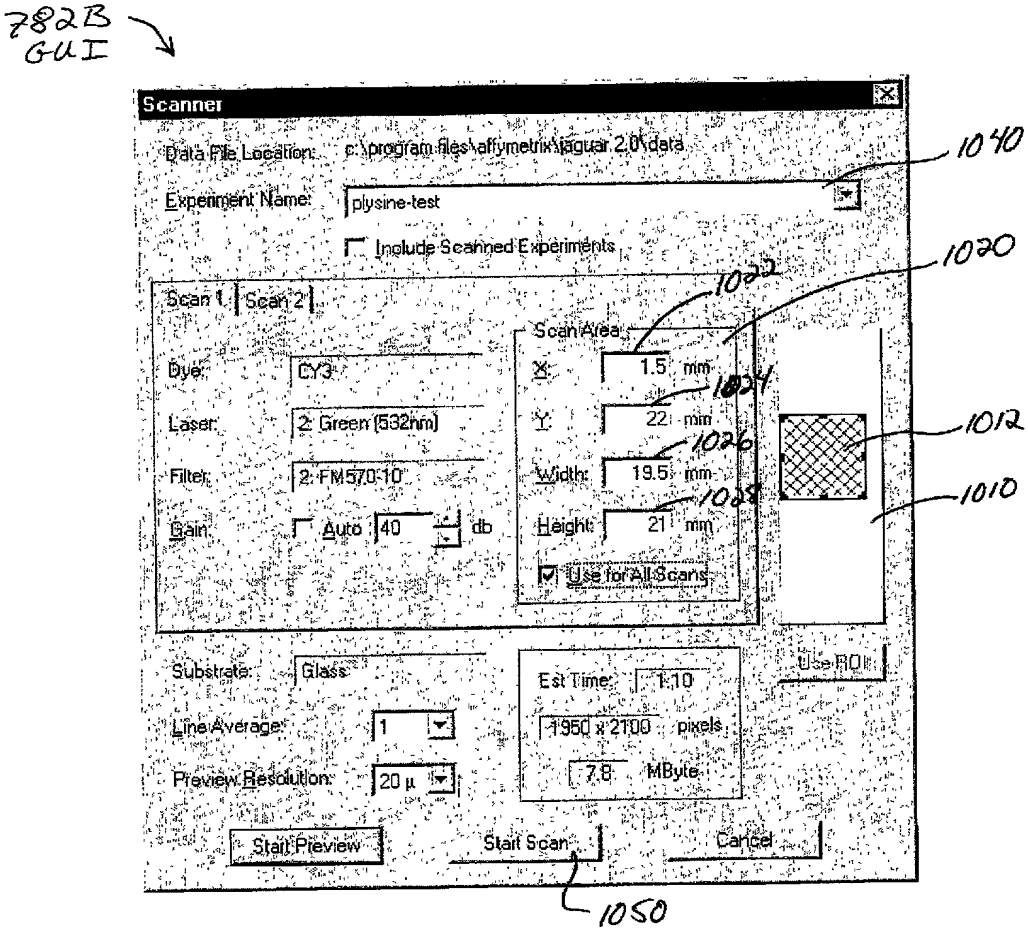
FIGURE 9



Data File Location: c:\program files\affymetrix\jaguar 2.0\data
Experiment Name: plysine-test
Operator Name: Scanner User
Company Name: company name
Array Type: array type
Description: experiment description
ART/CSV File: ResGen Pattern - Plysine csv
Number of Scans: 2
Substrate: Glass
Dye Name: CY3
Gain: 40 db
Laser: Green (532nm)
Filter: FM570-10
X: 1.5 mm
Y: 22 mm
Width: 19.5 mm
Height: 21 mm

09682074.071801

FIGURE 10



Data File Location: c:\program files\affymetrix\jaguar 2.0\data

Experiment Name: plysine-test

☐ Include Scanned Experiments

Dye: CY3

Laser: 2: Green (532nm)

Filter: 2: FM570-10

Gain: ☐ Auto 40 db

X: 1.5 mm

Y: 22 mm

Width: 19.5 mm

Height: 21 mm

☑ Use for All Scans

Substrate: Glass

Line Average: 1

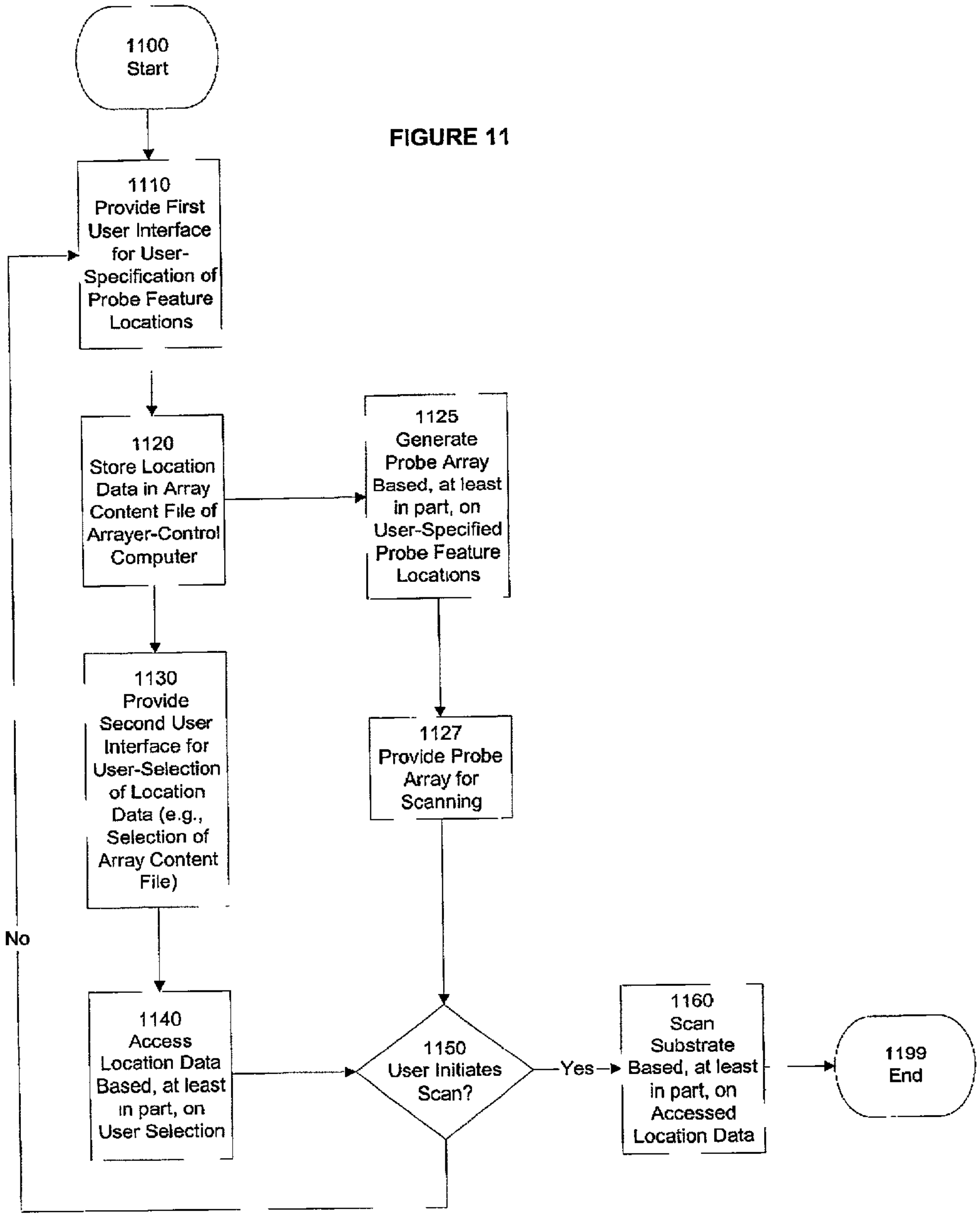
Preview Resolution: 20 µ

Est Time: 1:10

1950 x 2100 pixels

7.8 MByte

FIGURE 11



09682074.071701